

Express Mail No.: 2286735US

**NEW UTILITY PATENT APPLICATION
TRANSMITTAL**

DOCKET NO.
END920000087US1
(IEN-10-5540)

TOTAL PAGES IN THIS SUBMISSION
3

TO THE ASSISTANT COMMISSIONER FOR PATENTS

**Box Patent Application
Washington, D.C. 20231**

Transmitted herewith for filing under 35 USC 111(a) and 37 CFR 1.53(b) is a new utility patent application for an invention entitled:

MULTI-LAYERED HIGH DENSITY CONNECTIONS

invented by:

RICHARD RONALD HALL
CHRISTOPHER JOHN MAJKA
MATTHEW FRANCIS SEWARD

HOW TZU LIN
NORMAN COREY SEASTRAND
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assigned to

INTERNATIONAL BUSINESS MACHINES CORPORATION
Armonk, New York

If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation

☐ Divisional

☐ Continuation -in -part (CIP)

in prior application No.: _____

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having **18** pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☐ Cross References to Related Applications (*if applicable*)
 - c. ☐ Statement Regarding Federally-sponsored Research/Development (*if applicable*)
 - d. ☐ Reference to Microfiche Appendix (*if applicable*)
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings (*if drawings filed*)
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure
3. ☒ Drawing(s) (*when necessary as prescribed by 35 USC 113*)
 - a. ☒ Formal
 - b. ☐ InformalNumber of Sheets 4

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Application Elements (Continued)

4. ☒ Oath or Declaration
- a. ☒ Newly executed (*original or copy*) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (*for continuation/divisional application only*)
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
5. ☐ Incorporation by Reference (*usable if Box 4b is checked*)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche (*Appendix*)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all must be included*)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy (*identical to computer copy*)
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☒ Assignment Papers (*cover sheet & document(s)*)
International Business Machines Corporation, Armonk, New York
9. ☐ 37 CFR 3.73(B) Statement (*when there is an assignee*)
10. ☐ English Translation Document (*if applicable*)
11. ☒ Information Disclosure Statement/PTO-1449 ☒ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard
14. ☒ Certificate of Mailing
☐ First Class ☒ Express Mail (*Specify Label No.*): EK602286735US
15. ☒ Application Data Sheet
16. ☐ Additional Enclosures (*please identify below*):

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FEE CALCULATION AND TRANSMITTAL

CLAIMS AS FILED

| 1) For | 2) Number Filed | 3) Number Extra | Rate | Additional Fee |
|--|-----------------|-----------------|-----------|----------------|
| TOTAL CLAIMS (37 CFR 1.16(c)) | 26-20 = | - 6 - | x\$18.00 | \$ 108.00 |
| INDEPENDENT CLAIMS (37 CFR 1.16(c)) | 5 - 3 = | - 2 - | x \$80.00 | \$ 160.00 |
| First Pres. Of Multiple Dep. Claims | = 0 | | | \$ 0.00 |
| Basic Fee | = 0 | | | \$ 710.00 |
| | | | TOTAL | \$ 978.00 |

- ☐ A check in the amount of _____ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 09-0457 as described below. A duplicate copy of this sheet is enclosed.
- ☒ Charge the amount of \$978.00 as filing fee.
- ☒ Credit any overpayment or any deficiency.
- ☒ Charge any additional filing fees required under 37 CFR 1.16 and 1.17.

Respectfully submitted,

Date: March 15, 2001

By: Lawrence R. Fraley
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IP Law Dept N50/040-4
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PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

03/21/2001 MABTEN 00000037 090457 09011101

| | |
|-----------|-----------|
| 01 FC:101 | 710.00 CH |
| 02 FC:103 | 100.00 CH |
| 03 FC:102 | 160.00 CH |

PTO-1556
(5/87)

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)
Applicant(s): Hall et al

DOCKET NO.
END920000087US1
(IEN-10-5540)

Serial No.
To be assigned

Filing Date
Filed Herewith

Examiner

Group Art Unit

Invention: **MULTI-LAYERED HIGH DENSITY CONNECTIONS**

I hereby certify that the following documents

New Utility Patent Application Transmittal

Application Data Sheet

Patent Application comprising 12 pages of specification, 5 pages of claims,
1 page of Abstract and 4 sheet of drawings

Declaration and Power of Attorney for Patent Application

Assignment and Recordation Cover Sheet

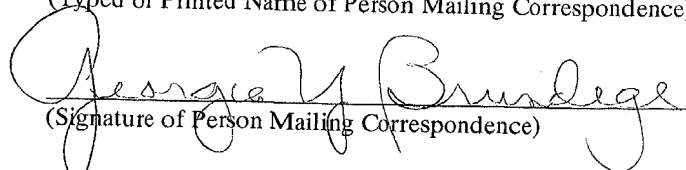
IDS Submission Statement with 1449 Form and copies of all citations

Two (2) Acknowledgement post cards

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231 on
3/16/01.

Georgia Y. Brundage

(Typed or Printed Name of Person Mailing Correspondence)


(Signature of Person Mailing Correspondence)

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